



Painter Nicolae G. Iorga was born at Giulești in 1933 and graduated from the Nicolae Grigorescu Fine Arts Institute in Bucharest. Since 1958 he has entered national, municipal, county and festive exhibitions staged in Bucharest, Brașov and Sighetu Marmației. In 1967 he has participated in group exhibitions mounted abroad. He has 15 one-man shows (two opened in Austria in 1983 and 1986). Critics speak highly of his creation, praising particularly the originality of his plastic vision. We shall reproduce just some of these opinions. The late Petru Constantinescu wrote: "Nicolae G. Iorga evokes the town in the light, the scene in the atmosphere, blending architectural elements set forth in an ingenious simultaneity with powerful chromatic harmonies. A contemporary critic, Dan Grigorescu, noted: "A clear outlook, great profound honesty, direct lyrical free of intricate problems are to be found in his painting."

And here is one more characterization of his art: "From the complexity of the world, Iorga sheds light on the harmony becoming the very principle of the image. Harmony governs the relations between objects and space, incorporates the richness of details in the appearance of an implicit geometry and intense discretion on the chromatic dimension. In fact discretion is a defining feature of the artist which does not obscure reality but is felt in the work's formal perfection. It is the passion of a refined artist having the experience of culture — that of lingering on the formal aspect which conveys validity of the image, of polishing reality. His talent, setting off from the gain splendor of nature, pursue another type of beauty availing itself of the primary beauty of reality — the impeccable beauty of art, of the fixed form in which classicism excels". (Alexandra Tîtu)

PAUL ANTIM ■

Photos, left, from top to bottom: "At Tocani", "Town-scape", "Boat", "Austrian Landscape"; right, from top to bottom: "Autumn in the Sibiu", "Twilight", "At Lăzău"; centre, top: "Season"; centre, bottom: "Archaeology".

ROMANIAN NEWS

70 YEARS SINCE THE CREATION OF THE UNITARY ROMANIAN NATIONAL STATE
THE ENTIRE PEOPLE'S UNITY AND COHESION AROUND
THE PARTY AND ITS GENERAL SECRETARY,
COMRADE NICOLAE CEAUȘESCU,
A FUNDAMENTAL FACTOR OF BUILDING THE MULTILATERALLY
DEVELOPED SOCIALIST SOCIETY IN ROMANIA

In an atmosphere of vibrant patriotic feelings, of unity of thoughts and deeds around the party, around its General Secretary, Nicolae Ceaușescu, on December 1 our people are celebrating 70 years since the foundation of the unitary Romanian national state, a crucial moment depicted in the homeland's millennia-old history. The anniversary of this event of overwhelming importance is an occasion for evoking the grandioses acts achieved seven decades ago through the united fight of the advanced, vanguard forces of our nation, of the broad masses of the entire people.

The unity of the Romanian people and of its language, the unitary character of the development of Romanian society in its ancient heroic characterize the whole historical evolution of the Romanian from their Geta-Dacian forerunners in the socialist Romania of today.

As early as its first forms of manifestation and distinctly, the Romanian people demonstrated particular unity in its evolution, which was obvious in its ancient economic structures, in the similar administrative-territorial forms that emerged almost simultaneously in all the territories inhabited by Romanians. In the period of historical advances and of the social and racial barriers that divided the Romanian people into several political-social units, the unity of its language, traditions and cultural traits created along the centuries on the land of Dacia could in no way be altered.

The feeling of national unity never died down during our long and eventful history. The symbol of the unity of all Romanians rose continually like

a living flame, stemming from the numerous deeds and sacrifices recorded in the course of a troubled and hard existence. In the perspective of history, although the first fundamental moments of our nation's past struggles, the Great Union of 1918 manifested the unanimous will of the Romanian people, was the expression of a historical law-like, objective necessity, a vivid crowning of its century-old aspirations to live in unity, freedom and independence. In its historical tradition, reflecting to the significance of this event, the Party General Secretary, comrade Nicolae Ceaușescu stressed: "The union is the natural, law-like outcome of the Romanian people's long historical development, of its struggle for the right to be free and master in its own country. Since ancient times, the ideals of national freedom and independence have continually inspired the Romanian people, being the torch which for generation after generation lit the path to justice, to progress, to a better, free and dignified life. The analysis of the unfolding events clearly proves that the creation of the unitary Romanian national state is not the result of understandings concluded at the negotiating table but the fruit of the fight of the entire people unimpaired by the resolve to fulfill the dreams for which so many generations of forerunners struggled and laid down their lives."

The grandioses historic act of 1918 created new conditions for the development of our nation, for its international life, for the intensification of the revolutionary movement, of all the progressive forces of society.

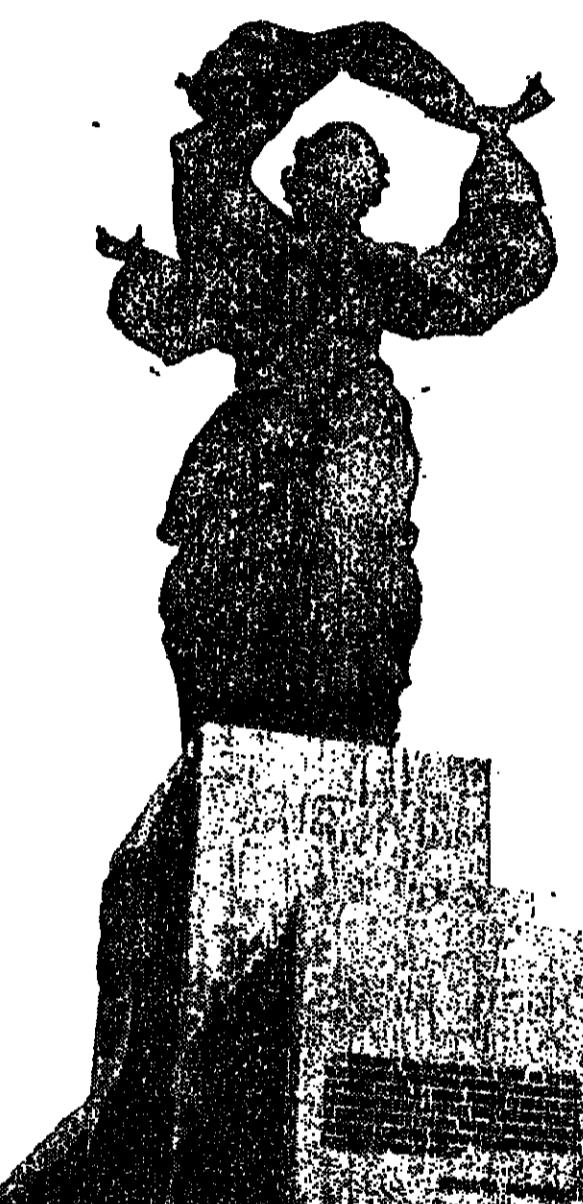
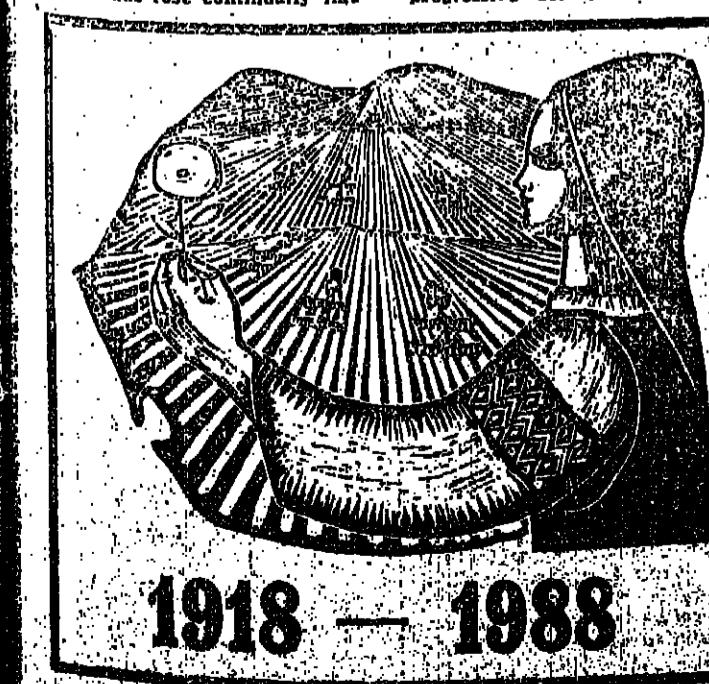
The working class was the first social force which raised the problem of and took action for settling up a single political party in Greater Romania. The settling up of the Communist Party in May 1921 — a moment of great political and historical significance — continued on a higher level the rich fighting traditions of the working class, democratic and socialist movement in Romania, of the political party founded in March 1933. The Romanian Communist Party gave every greater impetus to the people's fight for national justice and freedom, for national unity and independence, for consolidating the homeland's sovereignty and defending its territorial integrity, against the fascist, revisionist and war threat. The communist ardent patriots, the consciousness of their high responsibility for the future of Romania, the resolve to defend at any cost the national independence and territorial integrity of the state seriously threatened by Nazi Germany and its allies found an expression in the foundation in June 1933 — only a few months after the establishment of Hitler's dictatorial German — of the National Anti-Fascist Committee, a broad patriotic organization, open to all democratic, progressive forces. In order to lend solidity and vigour to that nationwide anti-fascist fighting body, the Party Central Committee appointed the young and resolute revolutionary fighter, comrade Nicolae Ceaușescu, to the leadership of the National Anti-Fascist Committee. The option made in that respect by the party leadership brilliantly materialized in the particularly fruitful activity, the exceptional organiza-

(cont. on p. 2)

A NATIONAL SCIENTIFIC SESSION ON THE
70TH FOUNDATION ANNIVERSARY OF THE
UNITARY ROMANIAN NATIONAL STATE

(PAGE 6)

THE ROMANIAN PEOPLE'S STRUGGLE
FOR NATIONAL LIBERTY, UNITY
AND INDEPENDENCE MIRACULOUSLY
PRESERVED BY PRESIDENT NICOLAE CEAUȘESCU
IN THE POLITICAL AVENUE



(cont. from p. 1)

ternal spirit, the dynamism and political clear-sightedness which characterized our comrade Nicolae Ceausescu as early as those years.

As part of the large-scale battles for achieving the unity of action of the working class, for uniting the progressive forces in a broad popular front, the golden pages of history record the impressive patriotic, anti-fascist and anti-imperialist demonstrations staged in Bucharest and in other towns of this country on May 1, 1938. In whose organization comrade Nicolae Ceausescu and comrade Elena Ceausescu played a decisive part.

Evoking these glorious moments in the struggle of our communist party for the working class, we are paying an ardent and vibrant homage to the long heroic, revolutionary activity of comrade Nicolae Ceausescu, to his remarkable contribution to the great revolutionary battles, to the organization of the anti-fascist movement, of the fight for defending the rights and freedoms of the broad working masses. During those years of struggle, he asserted his exceptional qualities as an eminent political leader and organizer, his infinite devotion and love, his total dedication to the just and noble cause of the working class, of the Romanian people, of the freedom, dignity and independence of the homeland, the unshakable confidence in Romania's socialist future.

During these hard and heroic years of the fight against fascism and war, always by comrade Nicolae Ceausescu's side was comrade Elena Ceausescu, who carried on a rich revolutionary activity, evoking high qualities of a commanding, inspiring and confident in the righteousness of the cause of freedom and justice in our homeland, and exemplary attachment to the supreme ideals of the working class, of the Romanian people. These grandiose ideals came true with the victory of the anti-fascist and anti-imperialist revolution in our land and national liberation. The whole progress of the developments of August 1944 demonstrated the organizational and political capacity of the Romanian Communist Party to unite the working class, the peasantry, the intelligentsia, all the democratic forces of the nation in the fight for the homeland's liberty and independence, thus paving the way for far-reaching revolutionary changes in the life of the Romanian people, our party ascertaining itself as the leading political force of Romanian society.

The ensuing years saw the ever more vigorous assertion of the role of the working class, with its communism at its head, in the rehabilitation of the economy destroyed by the war, in the working of far-reaching social changes, in the abolition of the monarchy and the establishment of the Republic. Always present in the middle of that tumultuous revolutionary activity, in the work of organizing Romanian society, in the very heart of the struggle was our great and brilliant leader, the Party General Secretary, President of the Republic, comrade Nicolae Ceausescu.

A continuator and inheritor of the most advanced working and fighting forces of our people, the only steadily revolutionary political force capable of rallying the masses and leading their struggle against exploitation, national and socialist oppression, for democratic rights and freedoms, the Romanian Communist Party earned the confidence and love of the entire people during its activity, tirelessly serving the working people's interests and honourably fulfilling its mission of building the nation, of the basis of building socialist and communist society in our homeland.

The process of building socialist society found its full content, acquired new meanings and ever closer concrete expressions open to the restorer of Romanian society. In the glorious age ushered in by the historic Ninth Congress, which numbered in our state in the activity of the party, in the activity of the communist movement, in our homeland, which through the unanimous will of the communists, of the entire nation, our party and state have had at their head our beloved and esteemed leader, comrade Nicolae Ceausescu, a brilliant thinker and politician who for over five and a half decades has been identifying himself with the ideals of the party, with the interests of the Romanian nation, has been serving the grandiose cause of the socialist homeland's development and flowering, of strengthening collaboration, understanding and peace in the world.

The prominent personality of the Party General Secretary, his clear-sighted, profound, scientific, original and innovative thinking, his innumerable publications and revolutionary spirit, his great political and organizational experience, his inimitable energy have left their decisive imprint on the party and state's home and foreign policies as a whole, determining the courageous and intransigent elimination of the working class, of the whole people around the Romanian Communist Party, this unity

was institutionalized as managing bodies of the whole society and state activity. This organization, closely linked to the state's democratic bodies, ensures a vast frame of the growth of the working class' share and political role, of the people's active participation in the management of society, in the elaboration and carrying out of Romania's whole domestic and international policy.

All this determined the achievement of all working people's real social and political rights on the basis of fundamental interests and aspirations on the right to be the only masters of their destiny, to consciously build their future.

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practices, the firm promotion of an innovative, realistic orientation, deeply rooted in the Romanian traditions and realities, in perfect consonance with our people's interests and aspirations, with the requirements of the contemporary world's development.

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being the decisive propelling force of the Romanian society's multilateral orientation, deeply rooted in the Romanian traditions and realities, in perfect consonance with our people's interests and communism in our beloved country.

The mobilizing factor of the huge social energy born from the new and powerful drive in the Romanian Communist Party, its activity of elaborating its political line in full accordance with the supreme interests of the nation, with the whole society's dreams and vital aspirations.

With his remarkable power of penetrating the supreme political, economic and social phenomena, with the scientific revolutionary spirit that characterizes his entire work and activity, the Party General Secretary, President of the Republic, comrade Nicolae Ceausescu — brilliantly leading the destinies of the homeland, of the Romanian people, on the path of socialism and communism, of welfare and peace — shortly resulted in the scoring of historically unprecedented successes. All great and grandiose accomplishments of this historical period determined our people to refine these great aims as "the Niculae Ceausescu Army" inscribed forever with gold letters in our party's life and that of our dear homeland, as a sign of high honoration and constant gratitude for the brilliant founder of contemporary Romania.

The permanent dialogue conducted by the Party General Secretary with the broad working masses all over the homeland's territory, when he has been inspiring with self-confidence, has shortly resulted in the scoring of historically unprecedented successes. All great and grandiose accomplishments of this historical period determined our people to refine these great aims as "the Niculae Ceausescu Army" inscribed forever with gold letters in our party's life and that of our dear homeland, as a sign of high honoration and constant gratitude for the brilliant founder of contemporary Romania.

Based on the ideas and orientations of the Party General Secretary we have always started from the fact that socialism and organization and management forms are not unchangeable, that they should undergo changes according to the development of productive forces, of science, the cultural level and in general to the socioeconomic realities.

The powerful development of productive forces determined deep changes in the Romanian society's structure, in the socioeconomic physiognomy and profile. The well-being of the nations among them, in these conditions, the process of getting closer and homogenizing social classes and categories takes place against the background of the assertion, in all activity sectors of the latest breakthroughs of science and technology, of the closer collaboration between the working class, the national peasantry and the intelligentsia. In the production process, in raising the whole society into new levels of progress and civilization.

Forever boundless, the political and industrial activity of our party is made in today's friendly social atmosphere and conditions, identified by the most intense and ample activity and new forms of party members are women. It could be rightly said that the party is present and has powerful roots. In all classes and categories of the Romanian society, in all sectors and activities of working people

the working class, of the intelligentsia converge in the direction of the development of the people's socialist unity, against the background of the growth of the working class' share and political role, of the people's active participation in the management of society, in the elaboration and carrying out of Romania's whole domestic and international policy.

In the masterly April 2nd comrade Nicolae Ceausescu again stressed the topical and continuously strengthening working class, the peasants, the intelligentsia, with the whole people, the people's active participation in the management of society, in the elaboration and carrying out of Romania's whole domestic and international policy.

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The making of the unitary Romanian nation-state 70 years ago was an epoch-making event in the homeland's historical development. The fulfillment of the Party General Secretary's preoccupation greatly emphasized the political clear-sightedness, the strong love for the people and the country, authentic humanism, during realism characterizing comrade Nicolae Ceausescu's thinking and action.

Under the influence of the innovative, daring thinking and action of the Party General Secretary, a revolutionary process of great depth and comprehension was carried out, understanding the interests of the working class, of the whole people around the brilliant party and state leader with endless love, high esteem

and appreciation, following him with full confidence in the great work of building socialism and communism.

The monolithic unity being the party's century-old aspiration for national liberation, the essence of the struggle fought by the most advanced social and political forces of the time, among which the masses played the leading part, the 1918 Union, said President Nicolae Ceausescu, "was a genuine landmark in the development of the Romanian people's national and political identity."

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The making of the unitary Romanian nation-state 70 years ago was an epoch-making event in the homeland's historical development. The fulfillment of the Party General Secretary's preoccupation

For centuries on end the Romanians impudently wished for the full recognition of their national identity, established as the outcome of a long history nurtured with fights for liberty and independence with remarkable contributions to the progress of mankind, marked by great creative force and irrepressible spiritual combustion. moulded in the course of two millennia, this identity was brilliantly and unmistakably shaped by outstanding scholars and thinkers, historians, philosophers, sociologists, as well as by national artists of world fame. Blurred in the period of dogmatism, impoverished, distorted, reduced to the dimensions of an identity sketched with brief, rudimentary lines, it has been totally re-evaluated in the "Ceausescu Age" not only through the reconsideration of the works that characterised it but also by a new approach to its essence, a synthetic, unitary, daring, exhaustive one, in the spirit of historical materialism.

The most fervent researcher and promoter of national identity has proved to be our Party and state leader himself, comrade Nicolae Ceausescu, whose rich and fertile work is pervaded by the ardour of erecting a true monument to the identity for the contemporaries and for the future generations, the imposing stature of the Romanian people, its physiognomy of impressive expressivity. The Party Programme itself is also a scientific, homo-panning work about our national entity, setting forth the historic mission against the grandiose background of national identity and aspirations in their long historical evolution. The proclamation of identity without reservations, false modesty or any kind of complexes is a promise of the very national dignity of the Romanian people. A capital virtue, a fruit of self-awareness, different from not only through an effort to preserve intrinsic values but also through the attainment of self-surpassing. It cannot be affirmed once and for all, it is reaffirmed in each historical period, being continually related to the new social demands, both national and universal.

The Union of 1918 was an act of national will of the highest character, which put an end to the period of disunity and division and proclaimed our overall self-determination. The result of the union was the superior deployment of the people for the creation of an advanced civilization. Undoubtedly

by the completion of state unity did not remain without effects on the level of social development; one is aware of the positive processes engendered in the sphere of the productive forces and relations, of the structure of society, of the political and cultural manifestations. But the bourgeoisie, which was then in power failed to live up to the moment for the achievement of which it had fought. By selling the national riches to foreign monopolies, subjugating the country to a supercapitalist exploitation and accepting the economic and political consequences deriving therefrom, it affirmed and most seriously supporting Romania's vocation as a

part of such a vigorous action creating a new material and cultural civilization as now. The aspiration after such a renaissance, after a relaunch of such scope in the orbit of material progress has always existed, especially at the moment of achieving the great union, but what was unfortunately lacking was the propelling force, the catalyst, instituting not the bankruptcy of the non-profitable socialist enterprise but its management by property; a dialectical relationship is directly stimulating profit-sharing outlook — must be created between the participation in the development of enterprises and the individual incomes and the rigorous application of the economic-financial mechanism with a

view to raising onto a higher level both the collective participation and responsibility and the individual ones must be pursued.

An essential dimension of our national identity is the aspiration after the permanent elevation of the mind, the unquenchable thirst for knowledge which has distinguished our entire history, being pathetically mirrored in failing. In the sombre, tumultuous, sometimes tragic folk philosophy, the "Ceausescu Age" has materialized this burning aspiration on an undreamed-of scale. The mass schooling process has evolved rapidly up to the upcoming generalization in secondary education. A social education is thus being achieved which actually exalts it, in accordance with the spirit of the age. Never in our millennium history was there a greater mobilization of energies, or was the framework of a more spectacular deployment of forces created than in the period elapsed since the Ninth Congress. The Romanians' national identity had had the opportunity to manifest itself several times along the centuries on the battlefield, for the defense of the land, the language, freedom, the national being, but never as

in this reasoning clearly appears to be false. The Romanian Communist Party has had at its disposal an approximately equal period since the Ninth Congress, since comrade Nicolae Ceausescu became its leader, to create a radically new technique-material base of society. Also in 23 years the Romanian people has succeeded in building a vast industrial network all over the country and whoever visited recently the national exhibition staged at the last international trade fair in Bucharest can hardly fail to be impressed by the grandiose background of national identity and aspirations in their long historical evolution. The proclamation of identity without reservations, false modesty or any kind of complexes is a promise of the very national dignity of the Romanian people. A capital virtue, a fruit of self-awareness, different from not only through an effort to preserve intrinsic values but also through the attainment of self-surpassing. It cannot be affirmed once and for all, it is reaffirmed in each historical period, being continually related to the new social demands, both national and universal.

The call to the large-scale

expansion of the horizons of knowledge through material creation, through the process of work rounds off the scientific investigation, organized by our people in 1948, answered an urgent question: "If we miss this opportunity, who will never be able to make up for this loss and our successors will not forgive us. In that way were expressed old and profound national aspirations — as well as the belief that it lay in the Romanians' power to carry out the most difficult program ever proposed to them, to take leadership in a short period of time. The party, with its General Secretary, at his head, was the visionary, daring, steadily revolutionary political force, ideologically armed, thoroughly organized which led this impetuous action step by step, properly channelling it towards the overcoming of obstacles and the attainment of the goal.

Taking into consideration the victories scored and stressing that the strategy of developing our society is just and full of harmony with laws and objective requirements, the Party General Secretary warns against the danger of self-contentment, assessing that achievements are not however on a par with the people's possibilities. The "April Thesis" reiterate the well-known idea according to which nothing has been solved once and for all, at the level of the gross urges to permanently to improve what we have achieved. Given the special importance attached to the need to keep abreast of the rapid pace of industrial renewal in the world. The objective is set of periodically improving the structure of production and management, without self-satisfaction, to meet the health-destined citizens, as well as by the technical-scientific revolution, determining the rise onto a qualitatively higher level of all material areas. Also, this

is the labour force is the most revolutionary, the decisive factor of socioeconomic development, greater efforts must be made for improving the professional, technical-economic training of the working people as well as for rigorously selecting the personnel according to value criteria, instituting not the bankruptcy of the non-profitable socialist enterprise but its management by property; a dialectical relationship is directly stimulating profit-sharing outlook — must be created between the participation in the development of enterprises and the individual incomes and the rigorous application of the economic-financial mechanism with a

view to raising onto a higher level both the collective participation and responsibility and the individual ones must be pursued.

Within the inherently restrictive space of a newspaper article we have mentioned the evolution and fulfillment in the years of socialism of earlier and more recent ideals of the Union, meant, in the conscience of the forerunners, to close the ranks of the Romanians in order to carry out their historical destiny.

ny, to hold a dignified place under the sun, to give the full measure of their creative capacity for the welfare of humanity as well as their own.

(Article published in the November 22 issue of the "Scintila" daily)

THE FULFILMENT OF THE ROMANIAN PEOPLE'S ASPIRATIONS IN THE "NICOLAE CEAUSESCU AGE"

DUMITRU POPESCU
member of the Executive Political Committee of the CC of the RCP,
rector of the Academy of Socio-political Studies of the CC of the RCP

"presently agrarian" state, it harmed the people's dignity. The policy pursued by the spirit of these orientations was a real prelude to the nation, being in fact a declaration of non-confidence in the masses' capacity for turning to best advantage their material resources, intelligence, talent and industry in order to narrow the gaps separating our country from the advanced capitalism of Western Europe, a step-grade education, a proof of political shoddy, a sense of modesty and inability to govern.

The Ninth Congress not only brought also into focus the concept of national dignity, reabilitating it and purifying it from erroneous ideological alibis, but also definitely and programmatically exalting it, in a clear and unitary manner.

As a result of the

influence of the

newly formed party, the "Ceausescu Age" has materialized this burning aspiration on an undreamed-of scale. The mass schooling process has evolved rapidly up to the upcoming generalization in secondary education. A social education is thus being achieved which actually exalts it, in accordance with the spirit of the age. Never in our millennium history was there a greater mobilization of energies, or was the framework of a more spectacular deployment of forces created than in the period elapsed since the Ninth Congress. The Romanians' national identity had had the opportunity to manifest itself several times along the centuries on the battlefield, for the defense of the land, the language, freedom, the national being, but never as



Ceausescu has made a huge contribution — both practical, by being tirelessly present in the agitated world political life, and theoretical, by drawing up an equally daring and convincing political line of possibly opening itself to progress, industrial methods generating equality, discrimination, disregard of the individual, because socialism's great historical chance lies in the cult of man materialized in social practice.

As a consequence of strength

ening the country's economic

development, this

is the result of the

and

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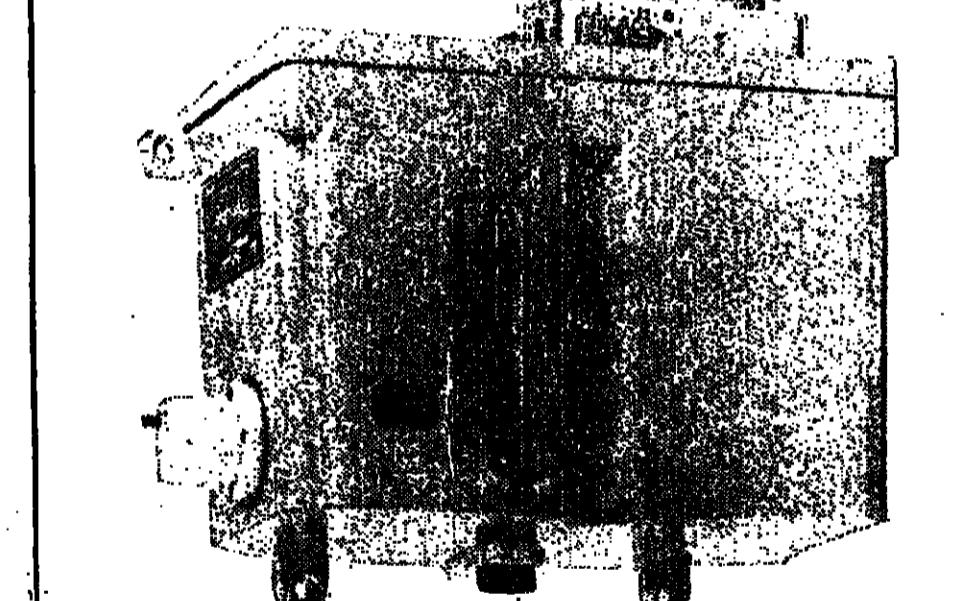
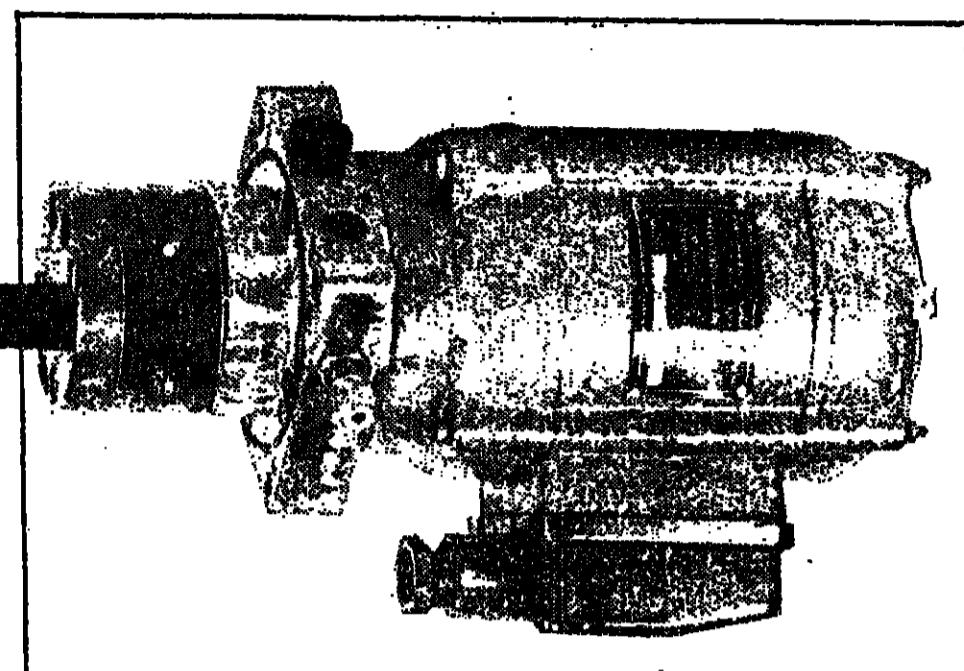
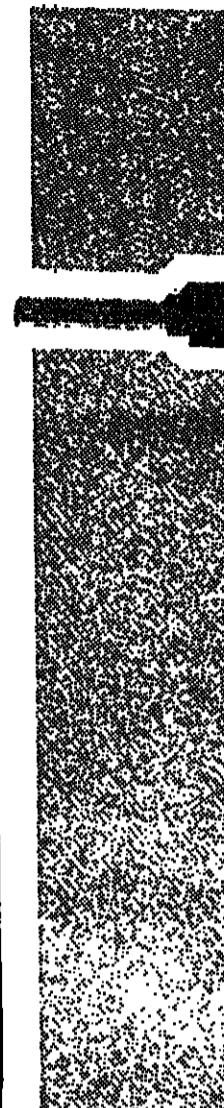
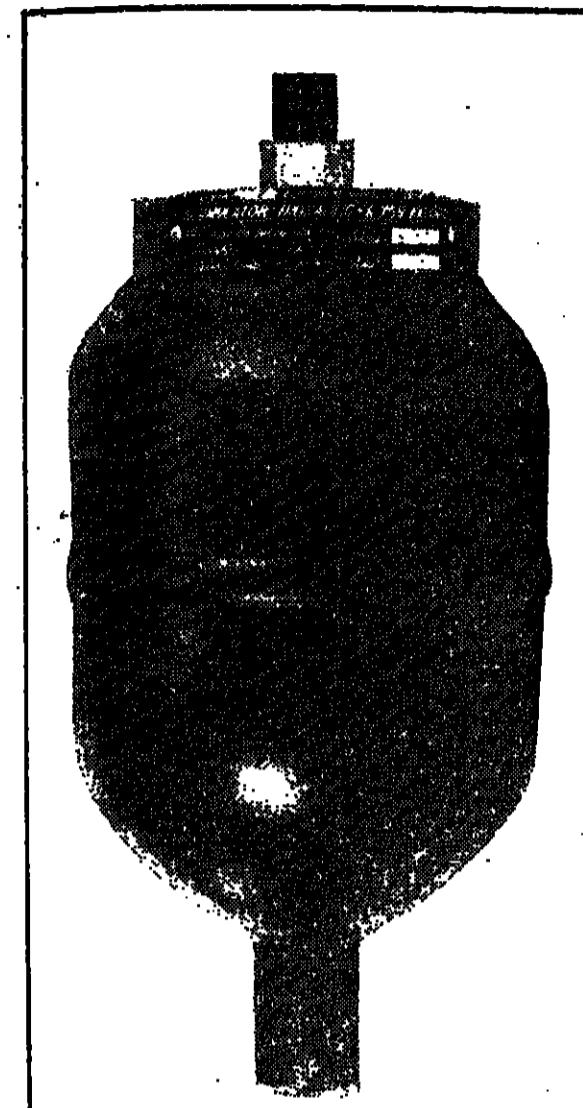
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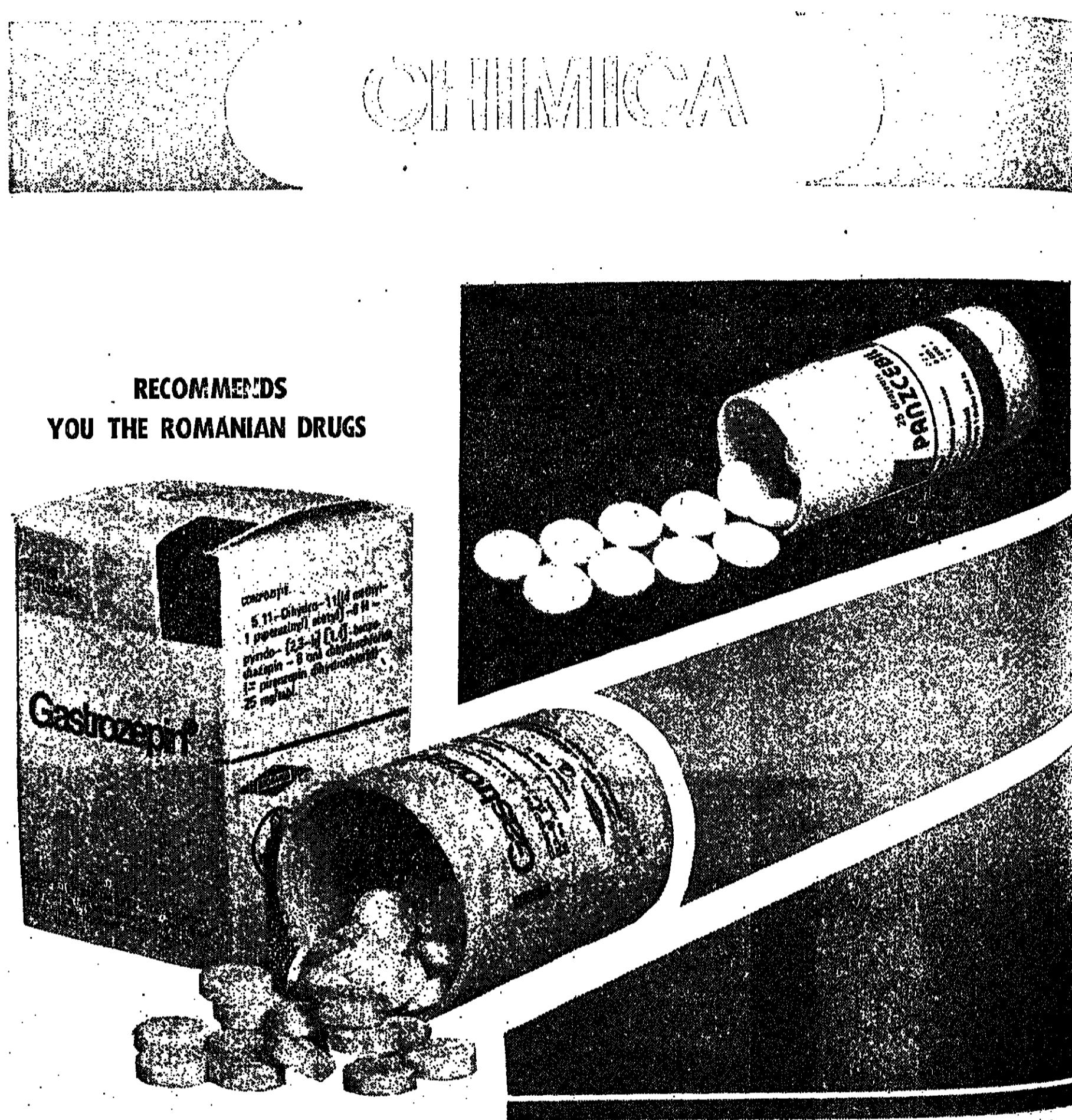
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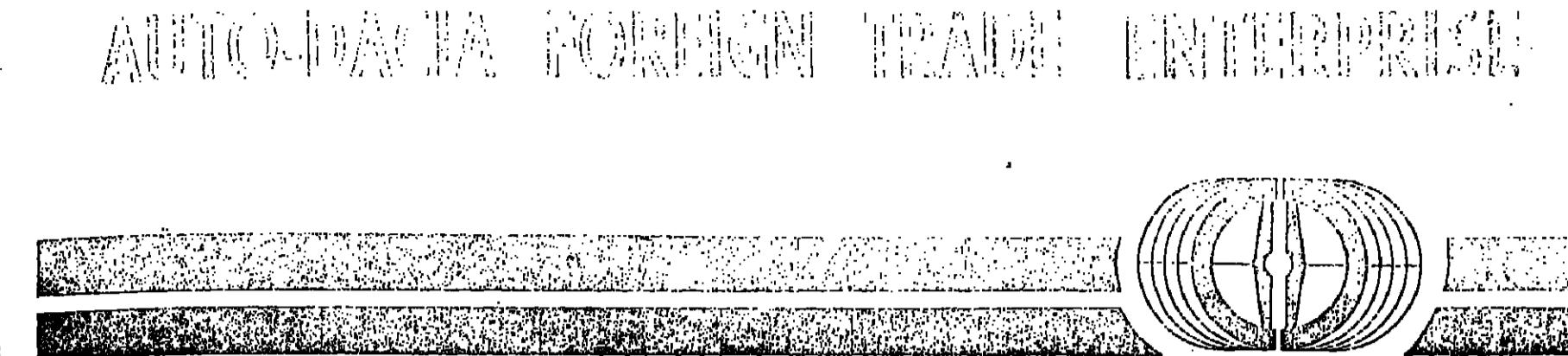


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Marketing Romanian electronic products and services as well as economic cooperation in the field of the electronic industry are carried out by the ELECTRONUM foreign trade enterprise.

ICE ELECTRONUM'S export programme includes the following lines of products:

— Telecommunication apparatuses and equipment, servicing included, starting from design up to training and maintenance. From this line of products mention should be made of: telephones, urban, interurban, international and institutional automated telephone exchanges. Exports of such products to Greece, the USSR, Czechoslovakia and the GDR have become a traditional practice.

— Measuring and control apparatuses, of which ampermeters, voltmeters, wattmeters, electric metres, flow-metres, steam-flow metres, logometers are delivered to Poland, Syria, Iraq, Pakistan, Sudan, the GDR and Czechoslovakia.

— Automation elements, equipment and installations for all the economic and social sectors.

We shall enumerate some subgroups of products: field and panel automation equipment, distribution and control electrical equipment, automated equipment and systems controlling technological processes in all economic branches, transmission and data-processing equipment.



ment, teletransmission and data processing equipment, machine tools, control equipment, automated testing equipment.

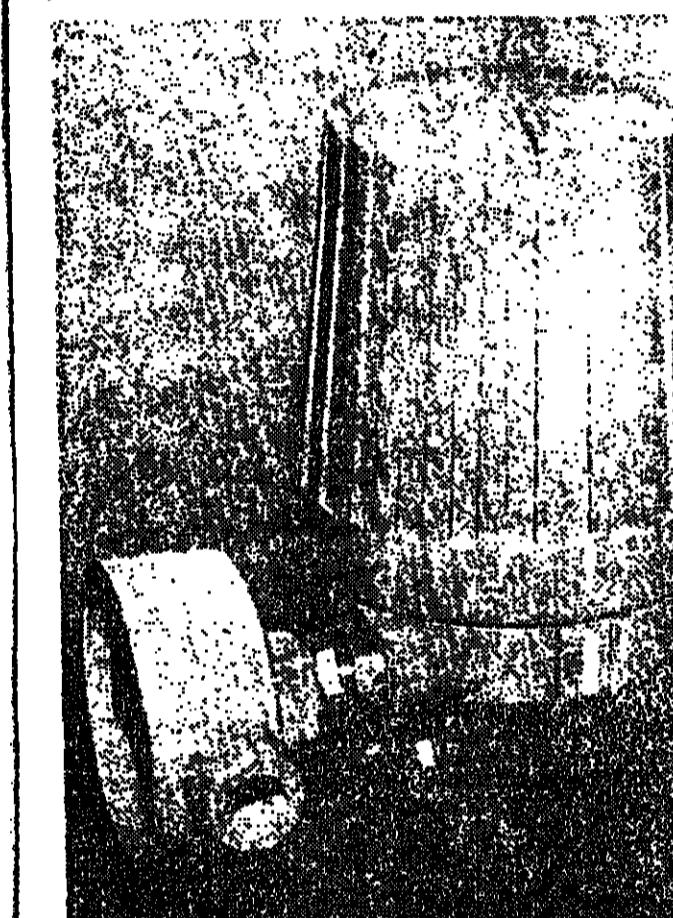
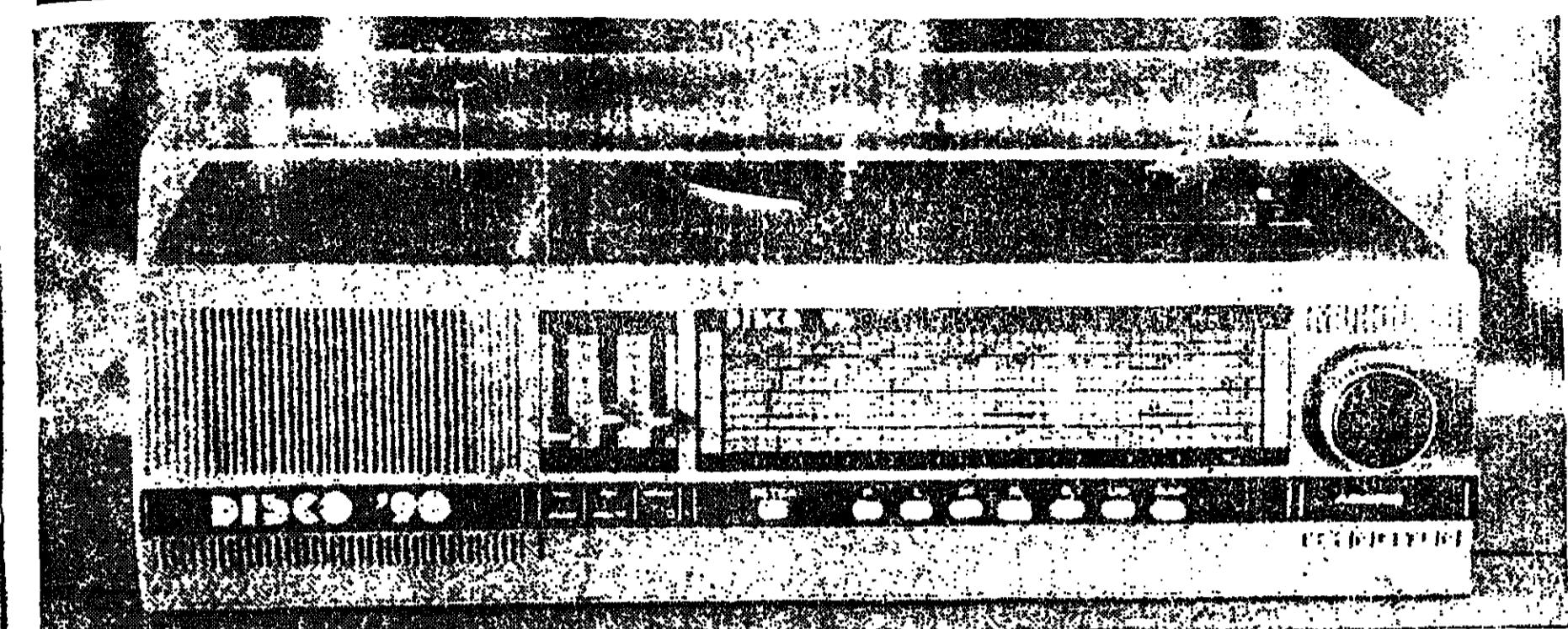
Also on offer are personal installations and equipment as well as turn-key deliveries. Increasing are the deliveries to countries such as the USSR, Egypt, the GDR, Czechoslovakia, Iraq, Bulgaria.

— Computer technology equipment such as: medium-capacity computers, minicomputers, microcomputers, personal computers, graphical systems, invoicing and bookkeeping machines, peripheral equipment. These products are exported to People's China, Czechoslovakia, the USSR, the GDR, Switzerland, Austria, West Germany, the USA.

The electronic components cover a wide range of diodes, transistors, integrated circuits, resistors, condensers, etc and are exported to Bulgaria, Czechoslovakia, the GDR, Poland, France, Italy, the United States etc.

Consumer goods such as radio receivers, radio cassette recorders and tv sets. These products are exported to countries such as West Germany, Britain, the Netherlands, Czechoslovakia, the GDR, the United States.

Also taking place through ICE ELECTRONUM are the export of licences and knowhow, the granting of technical assistance and software.



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ICE ELECTRONUM imports a series of equipment, apparatuses, electronic components and various materials for the electronic industry and audio-video consumer goods.

An important partner in the export and import conducted by ICE ELECTRONUM is the Soviet Union.

ICE ELECTRONUM —

Bucharest collaborates with the Soviet enterprises V/O ELECTRONORGTEHNICA, V/O STANKOIMPORT, V/O MASHPRIBORIMTORG, V/O TECHMASHEXPORT, ENERGOMASHEXPORT, V/O TEHNOINTORG, V/O

Supplied to the USSR are adjustable drives for machine tools, automatic telephone exchanges, computer technology, while that country exports to Romania electronic components, technological equipment.

servance of all delivery data, especially as concerns the electronic components which are vital to the rhythmic realization of the equipment production plan.

According to annual mutual exchange protocol stipulations, the volume of the exchanges between ELECTRONUM and the Soviet foreign trade enterprises is set to grow every year.

For further information please contact our specialists.



1990

IT IS SNOWING ON THE TRANSFĂGĂRĂŞAN

We climb on the Transfăgărăşan, a spectacular road crossing the steppes and harshest mountains in Romania. On one side and the other there are valleys and pastures flooded by copper-coloured forests. Engineer Ion Gheorghe, who is in charge with the maintenance of this monumental road on the "country's roof" said that "the Transfăgărăşan is more beautiful, in point of landscape than the access way between Italy and France in the Alps. We believed him because the engineer knew very well from books, treatises and repeated journeys the chiro-mancy of all alpine roads in Europe.

THIS WEEK'S REPORTAGE

We passed over Vidraru dam, a harp-shaped construction of massive concrete over which our road to the heart of the mountains plunged. The ATO 243 Diesel car rolled on the concrete river of the road bearing the code name DN 7 C. It was a road with gentle curves, dizzy dips and winding turns, another like a cascade. The curves were panoramic, surging on consolidated promontories over deep ravines. Everywhere, bridges like arches over valleys, sophisticated viaducts and footbridges stuck like spring boards between steep mountain sides. Everywhere there were support walls, parapets and drainages equal "works of art". Thus we crossed 50 bridges and viaducts, over 830 footbridges through four million cu.m. of shovelled earth.

THE "HIGHEST" TOURIST CHALET

The Bilea lake chalet is located in the highest area of the Transfăgărăşan National Road, where the asphalt ribbon is in the vicinity of Lake Bilea and Capra Basalt peak. It appeared on tourist maps almost 100 years ago, was restored and extended several times and has been a stopping place for trip lovers in all seasons. One can reach elevation 2,045 m. by car or coach and also by cable car from Bilea Cascăda starting point, on the northern side, which allows an easy climb in eight minutes. At Bilea Cascăda starting point there is also a modern hotel complex accommodating several hundred tourists as well as a centre for winter sports with ski lift installations.



ed step by step and was built in segments, the works being attacked from 20 points, from 20 excavation fronts.

We could still see the marks of abandoned works of channelled river courses. The Transfăgărăşan's open abounds in strange stories with equipment and materials left behind, precipices buried under rocks, antennae and marshes with oaks and barks whose roots were torn by storms, covered by big snowfalls or avalanches, by people isolated in tunnels, blocked by torrents, taken away by big snowfalls.

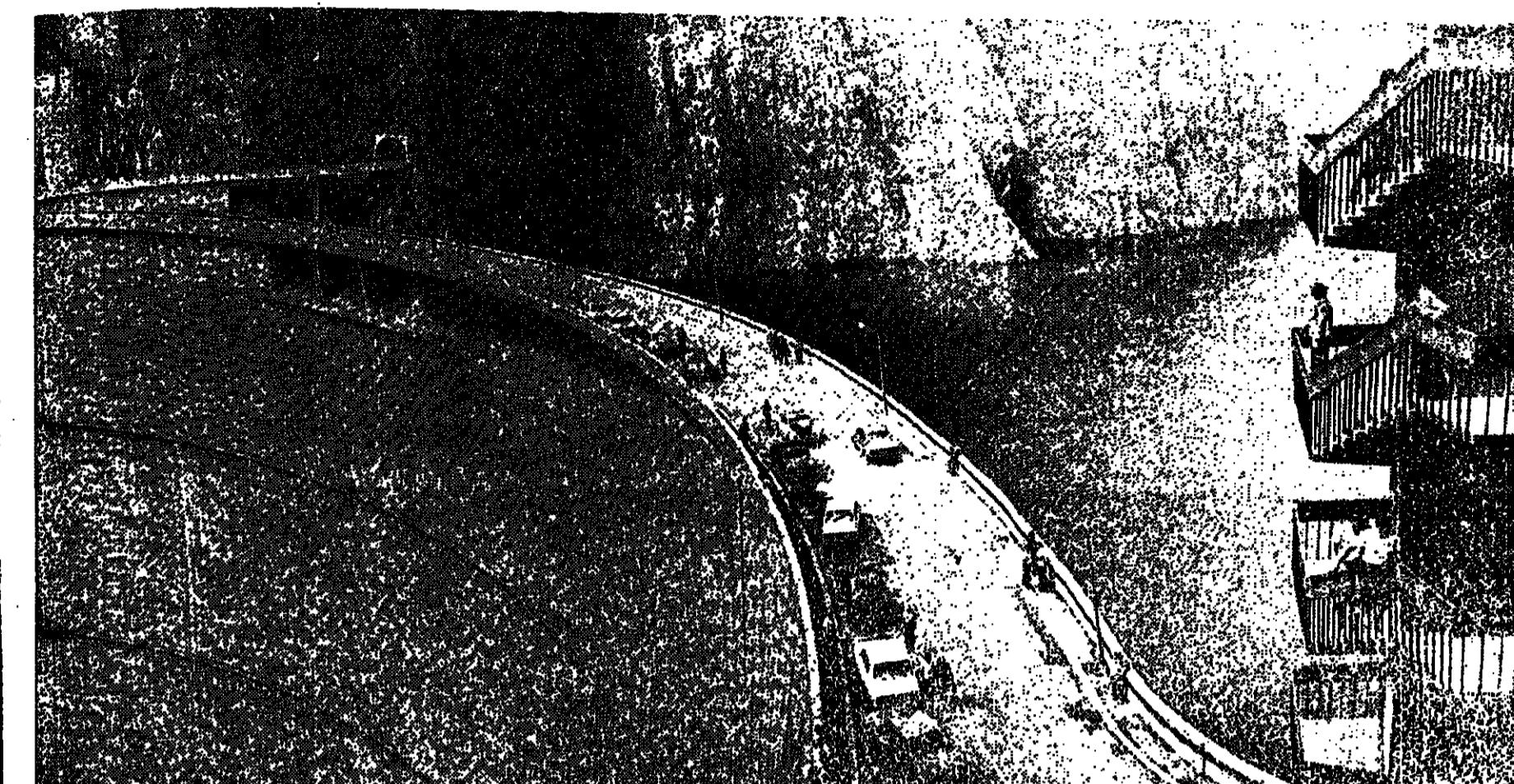
Now you can meet tens of tourists walking or going by car on the road. Cars with Romanians but also foreign license plates from the whole Europe. There are days, told us eng. Ion Gheorghe, when 700-800 cars cross the Transfăgărăşan.

Following the curves of Vidraru storage lake where the national kayak-canoe teams were training we passed by the cosy hotel and restaurant "Valea de Poieni" and out into the wilderness. "Note the construction of the Transfăgărăşan, those places had not been visited by man, only by wild animals. Smaller roads spring now from the main road. Some of them leading to the "marble mountain" which would not have been discovered if it hadn't been the building of the Transfăgărăşan. Other roads open up in forests, pastures in alpine spaces, for the transport of equipment, route changes, emer-

gencies, building material, timber, grass seeds and tree seedlings, grown in greenhouses. During, after the construction of the Transfăgărăşan, a battle started that of preserving the mountains, walls and roads through afforestation, land consolidation and terracing.

The first stop was the "200 for road protection and snow clearing" of km. 86, a modern chalet with annex buildings where autograders and snowploughs of non-skid material for prospect and emergency interventions were parked. There were highway maintenance armories for road work, whole year and for winter months. There is winter in November and ends in April. But sometimes snowfalls occur in August too, as it happened this year when a new layer of 50 cm was created during a single night. In such circumstances a "general alarm" is declared among the road and bridge workers who immediately take action for clearing the highway of snow or removing the effects produced by avalanches.

In fact, the Transfăgărăşan remains an open site. A distant building site, where people arrive from behind the scenes. After its inauguration on September 20, 1974, that road which climbs the mountain up to over 2,000 m has continuously undergone modern treatments according to the latest technologies. Thus, new structures of new bridges and viaducts, route changes, emer-



ALTITUDE AND SPLENDOUR

National Road 7 C, also called the Transfăgărăşan, belongs to a vast trans-Carpathian road network connecting among them the old Romanian historical provinces. The originality of the Transfăgărăşan consists of the technical and architectural solutions adopted by the builders, of the altitude at which it was carved into the mountain and the landscape's monumental beauty. Its highest elevation: 2,045 m. Length: 91.3 km. Width of road side: 6 m. Length of tunnel (the longest road tunnel in the country): 887 m. Curves: 200. Support walls: 290,000 cu.m. Parapets over 54 km. Viaducts: 27. Bridges: 830. From its highest point called Belvedere you can see the Black Sea on sunny summer days.



The atmosphere of rock, stone and the clouds, known as "the day". We were on the aqueduct roof. Groups of climbers appeared on the white peaks. Any whisper, any call had there the echo of an avalanche. Beyond that point started the descent on the northern side of the mountain toward the town of Sibiu, through areas covered with pine trees, beside Alpine hotels, exploiting from the highest point of view the year round.

At night we slept at the hotel near lake Bilea, with the feeling we were so close to the sky that we could touch the stars with our eye blinks.

ADRIAN MOCANU ■

THE VIDRĂU HARP

On the Transfăgărăşan there are the Vidrău dam and storage lake of the hydropower complex on the Arges river. The dam - a 166 m. high double arch allows the creation of an artificial lake with a capacity of 200 million cu.m. of water. It is considered the fifth dam of its kind in the world.

The whole Vidrău hydropower complex has, in fact, multiple functions: it supplies electric power, acts as a regulator of the Arges river and of other water courses, protects the environment against floods, ensures the irrigation of an area of 10,000 ha and represents, at the same time, a spectacular tourist attraction. That is in fact the place from where the ascent of the Carpathian Mountains toward the highest elevation - Lake Bilea

and the dam, begins. In the day, we were on the aqueduct roof. Groups of climbers appeared on the white peaks. Any whisper, any call had there the echo of an avalanche. Beyond that point started the descent on the northern side of the mountain toward the town of Sibiu, through areas covered with pine trees, beside Alpine hotels, exploiting from the highest point of view the year round.

At night we slept at the hotel near lake Bilea, with the feeling we were so close to the sky that we could touch the stars with our eye blinks.

We do not know what is the importance of the Transfăgărăşan, but more beautiful than the one between Madine and Torino in the Alps. More important is the fact that this road, carved into the rocks of the Făgăraş Mountains on a distance of 88 km. in 3,000 days, in heroic conditions, represents a technical performance unequalled in original solutions adopted in construction and exploitation. But also an European road with a good traffic security, with the tourist and recreation prospects in future years.

"INVENTIONS AND INNOVATIONS"

"INVENTIONS AND INNOVATIONS" was the title of a seven-day event held in Piatra Neamt (Neamt county), aimed at promoting and generalizing home-grown scientific and technical creations. This was the 13th all-country edition of the event and the third this year (after those in Arad and Timis county).

Piatra Neamt was chosen as host of the event because it is one of industrial and research centres with notable activity. The Neamt county ranks among the top ten counties in Romania as concerns the inventiveness index (the number of inventions for one hundred thousand inhabitants).

The event included an extensive exhibition showing more than 2,000 inventions and innovations (accompanied by numerous panels arranged and systematized by ministries) and seven sessions of technical-scientific papers focusing on metallurgy — machine building; chemistry; woodworking and silviculture; agriculture — food industry; light industry — small-scale industry — construction; energy; power — electronics — electrical engineering; environmental protection — medicine — labour safety.

The debates were attended by over 200 inventors, innovators, scientific researchers and university teaching staff, representatives of research institutes, central and branches all over the country who delivered more than 1,300 papers.

During the event, the Dimitrie Leonida Museum of Sciences and Technology in Bucharest arranged a special exhibition of great Romanian inventors, a display of names of inventors created by them. A film of technical films was also staged where 20 films were shown dealing with inventions and innovations made and patented in Romania.

At the end of the event, special commissions by sections decided to award prizes to 115 inventions and innovations. Eleven of them won first prize for their remarkable scientific and applicative value.

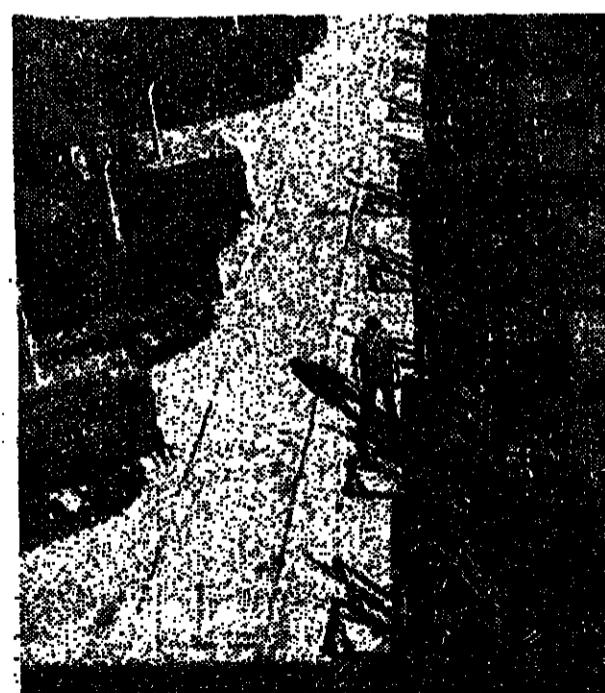
"HERCULES"

"HERCULES" — a large-capacity tugboat built by the Buzau Shipyard and equipped with two 6,000 hp engines is the latest ship acquired by the Emergency Services Directorate of Constanta.

Measuring 68.5 m in length and 10.5 m in width, the ship is designed for ship salvage and towage at sea. Moreover, it can be used quite successfully for harbour operations and for the supply of offshore oil rigs. "Hercules" can also be used as an ice-breaker to clear navigable rivers.

A NEW QUAY

The Constanta dock-bridge of the port works enterprise has begun the construction of a new quay for mooring ships of up to 27,000 dwt. Built in the area of berths no 9-7, in parallel with the present quay, the future quay will increase the loading-unloading capacity of ships in the respective area of the port.



Pages 8 and 18 are written by M. Mihăescu, A. Dobătaru, M. Constantinescu, T. Nicescu, V. Costea, G. Ostrovăneanu, M. Roga.

MINI-OTO

The motor scooters in the photo do not carry the trademark of any specialist unit. Their designer and builder, Pantelie Teodor Opreanu, is a graduate of an economic faculty and a teacher of finances at a Bucharest school. But he vested in his hobby the seriousness of a professional. And the satisfactions were not slow to come. In 1978, at the Ingenuity Salon, he obtained the first prize together with a scooter engine for an original scooter model.

Since then, Pantelie Opreanu has built two more models: MINI-OTO-2 and MINI-OTO-3 (OTO comes from Opreanu); which despite their small size boast performance remarkably.

MINI-OTO-3 measures just 77 cm between axes and three times lighter than the Romanian-made Mobra scooter. It is an ideal means of locomotion for hilly days as it can go up a trunk, or in the boot of a car (after dismantling the handle bar).

MINI-OTO-3 is a all-terrain vehicle, which can climb up 35° slopes and travel over difficult rough country through mud, sand, ice, broken ice, weight twice as little as Mobra, reaches 80 km per hour, carries two people (200 kg), and has a travelling autonomy of 200 km. In case of a flat battery, it can carry one person up to the nearest "voluntary" workshop. Opreanu is a specialist who built with several hundred layers, and in the final line of an original make.

TRACTOR NO. 40,000

These days, the 40,000th tractor has left the test stand of the Enterprise of Tractors of Mărtărești, Cluj (Mureș county). Along the years this model, industrial unit has assimilated over 10,000 technical, scientific, technical solutions built by inventors of users, and given them from over 15 countries of the world.



THE 1988 WINTER

As illustrated by the recent image (left) taken from a Bucharest park, winter has set in with abundant snow and low temperatures. It is true, it has come much sooner than in the previous years but it fully confirms the forecasts made by meteorologists a few months ago.

Judging by the way it has started, the winter of 1988-1989 has every chance to become a memorable one.

VEGETAL FACTORIES

Today hundreds of millions of kg of industrial nitrogen are produced for agricultural purposes. The energy of fertilizer and ecological price of these fertilizers are tremendous. However, only a part (sometimes less than a half) of the active substance is utilized by man into the soil. For instance, long-term tests with isotopic methods made by the Fundulea-based in-

stitute of research into the culture of cereals and technical plants proved that the capitalization coefficient in maize rises to 55 per cent (from 150 kg H/ha, which is considered to be the best dose for black earth).

In the face of this reality, the Fundulea's concern with creating cereals which, like vegetable plants, fix the atmospheric nitrogen, holds out fabulous prospects.

In other words, attempts are made at moving the chemical industry manufacturing nitrogen into the plant's root.

In this field the Fundulea Institute of research has been experimenting for more than a decade combinations involving nitrogen among unidentified plant roots and micro-organisms, apt to supply their vegetal partner with assimilable nitrogen and phytohormones. A great deal of tests included the Azospirillum-type of bacteria residing in the root of cereals and maize. Specialists identified root bacteria able to develop abundant bacterial associations with a continuous evolution up to the end of the vegetation period.

In order to corroborate the

G. OSTROVĂNEANU

TWO NEW STRAINS OF CEREALS

Two new types of cereals grown by the Tundzha Research Station have been recently homologized by the State Committee for Strains Testing and Homologation: the T 1409 Tundzha spring two-row barley and the T 91 M Simeon spring oat. The new oats are characterized by a large production capacity, increased resistance to diseases and pests, great adaptability to various pedoclimatic conditions, offering the possibility of a large-scale capitalization by the processing industry.



112 RDT-LD THE PLEASURE OF A COMFORTABLE RIDE

ROCAR

For many years now the AUTOBUZUL enterprise has confirmed its front-ranking place in designing and manufacturing buses, coaches and utility vans carrying the ROCAR trade mark. The unique characteristics of these motor vehicles are unanimously acknowledged by the most exigent specialists and beneficiaries. Annually, the AUTOBUZUL plant turns out scores of vehicles in many different models and types. The remarkable quality of these products lies in the great and complex (technico-scientific potential) of their design, construction, technology, assembly and control departments, on a par with the latest demands of world technology. The ROCAR products have the following characteristics:

The ROCAR buses and vans designed for passengers and goods are widely solicited all over the world, namely in 50 countries such as Australia, Austria, Bulgaria, Colombia, Cuba, Egypt, Greece, Iraq, Madagascar, Peru, Sudan, the United Kingdom, the USA and the USSR.

AUTOBUZUL offers now a new series of vehicles setting the ROCAR 1989 style. The new ROCAR collection opens with the 112 RDT-LD cruiser. The creators of 112 RDT-LD have happily anticipated the new trend shown by firms boasting a long-standing tradition at the latest edition of the Paris car salon. The tendency is characterized by HIGHER, LARGER, MORE SPACIOUS MODELS with state-of-the-art equipment.

112 RDT-LD comprises all these characteristics. The coach is quite impressive with its ample and straight geometrical design of the body, however retaining a note of sober, unostentatious elegance, specific to the ROCAR line. Conclusive in this respect are a few details: with a semi-bull-bearing and the ease of opening and closing the rear door, covered with 1-mm-thick steel sheet with special anti-corrosive protection, the coach has the following sizes: a total length of 12,000 mm, an axle base of 6,000 mm, front axle of 2,950 mm, rear axle of 3,300 mm, total width of 2,500 mm, a height of 3,150 mm, a road clearance of 300 mm and an overall mass of 18,000 kg. The bus has two leaf-spring (the front one has four stairs) and another one for the driver. The interior is extremely comfortable, displaying a discreet elegance. Everything is cosy, even the dashboard, resembling that of a aircraft. Everything has been chosen with exquisite taste, starting with the materials covering the interior walls and the ceiling, laid on the floor and the curtains.

112 seats (plus the seats of the driver and of the guide) have been the object of thorough studies. They offer elements of maximum comfortableness, are 100% both individual and can be folded. They are upholstered with soft wool in harmonious lines, treated exclusively for ROCAR. The arrangement and mobility of the seats allow of a perfect visibility, also enhanced by a panoramic windshield (the upper part is green, gradually brightening to the lowest part of it), the side windows (three on each side) as well as the rear window, all of them very large, made of light green thermo-absorbing safety glass.



on any terrain.

The bus has a 85-100

synchronous gearbox

with eight forward gears

and two reverse,

the passage

from the slow to the fast gears

being ensured by means of elec-

tro-pneumatic control. At the

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The bus has the unmatched

ROCAR break, completely pneu-

matic, including highly techni-

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A 112 RDT-LD breaks shortly

but smoothly, remaining in the

same position.

A 112 RDT-LD defies any dis-

tance, bad weather and the

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ROCAR

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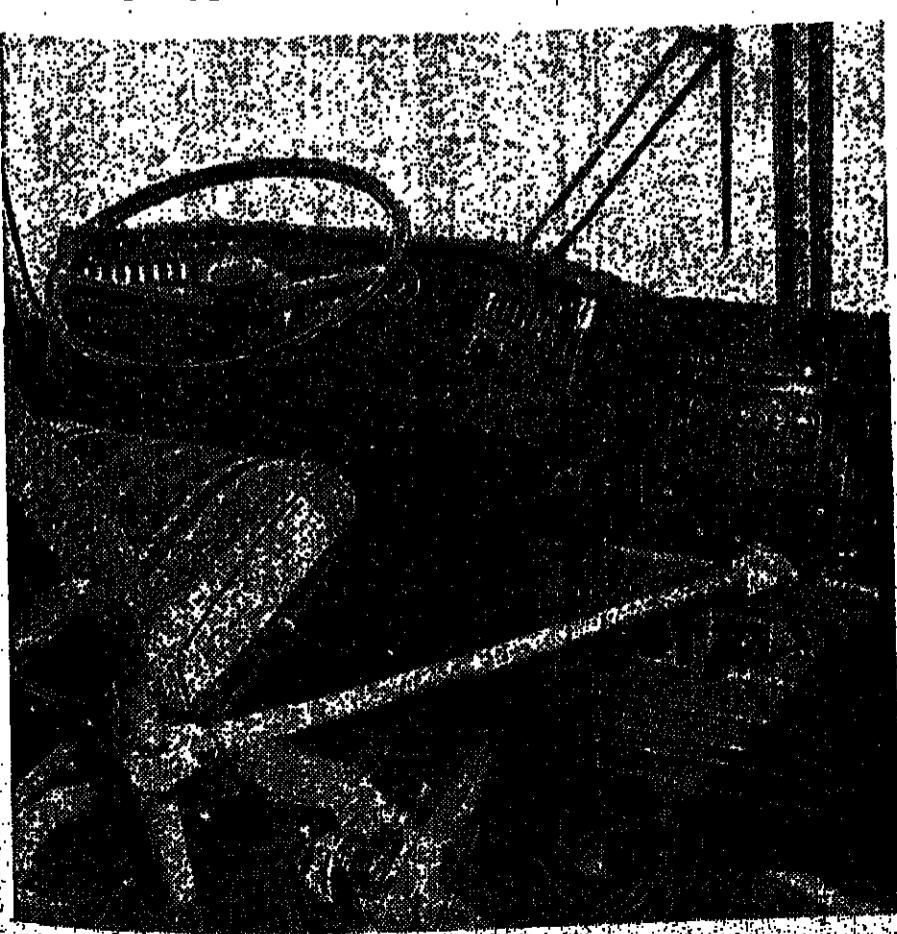
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REMEMBER :

The AUTOBUZUL plant has an extremely flexible make programme allowing it to manufacture, upon request any variant of its products in irreproachable conditions. In this context mention should be made that 112 RDT-LD is turned out in series production with the same unique performances for countries with tropical and subtropical climate.

Thanks to its strong technico-scientific potential our plant is eager to negotiate with specialist firms with a view to concluding mutually rewarding cooperation accords, guaranteeing the execution of the stipulations in optimum conditions.



"INVENTIONS AND INNOVATIONS"

"INVENTIONS AND INNOVATIONS" was the title of a one-day event held in Iasi Neamt (Neamt county) almost entirely scientific and technological in nature, and featuring the best known scientific and technical creations. This was the 14th all-country edition of the event and the third this year (after those in Arad and Dâmbovița counties).

Piatra Neamț was chosen as host of the event because it is one of industrial and research centres with a notable activity, while Neamt county ranks among the top ten counties in Romania as concerns the inventiveness index (the number of inventions for one hundred thousand inhabitants).

The event included an extensive exhibition showing more than 2,100 inventions and innovations (accompanied by numerous panels arranged and systematized by ministries) and seven sessions of technico-scientific papers focusing on metallurgy; machine building; chemistry; woodworking and silviculture; agriculture — food industry; light industry — small-scale industry — consumer goods industry; power — electronics — electrical engineering; environmental protection — medicine — labour safety.

The robes were attended by over 700 inventors, inventors' deputies, researchers and university teaching staff, representatives of research institutes, central and branches all over the country who delivered more than 1,300 papers.

During the event, the Dimitrie Leonida Museum of Science and Technology in Bucharest arranged a gallery of great Romanian inventors displaying a number of exhibits created by them. A gala of technical films was also staged where 20 films were shown featuring inventions and innovations made and patented in Romania.

At the end of the event, special commissions by sections decided to award prizes to 115 inventions and innovations. Eleven of them won first prize for their remarkable scientific and applicative value.

"HERCULES"

HERCULES — a large, effectively light boat built by the Brăila Shipyard and equipped with two 6,000 hp engines is the latest ship acquired by the Emergency Group of the Port Exploitation Enterprise of Constanța.

Measuring 68.5 m in length and 10.5 m in width, the ship is designed for ship salvage and towage at sea. Moreover, it can be used successfully for harbour operations and for the supply of offshore oil rigs. "Hercules" can also be used as an ice-breaker to clear navigable rivers.

A NEW QUAY

The Constanța port-bri-gade of the port works enterprise has begun the construction of a new quay for sea-going ships of up to 37,000 dwt. Built in the area of Berlitz no 0-7, in parallel with the present quay, the future quay will increase the loading-unloading capacity of ships in the respective areas of the port.



Pages 8 and 12 are written by M. Mihăescu, A. Doholariu, M. Comăneanu, T. Niescu, V. Costea, G. Ostrovaneanu, M. Răduca.

MINI-OTO

The motor scooters in the photo do not carry the trademark of any specialist unit. Their designer and builder, Pantelie Tudor Opreanu, is a graduate of an economic faculty and a teacher of finance at the Bucharest school. But he vested in his hobby the seriousness of a professional. And the satisfactions were not long to come. In 1980, at the Ingenuity Salon, he obtained the first prize together with a scooter engine for the original scooter model.

Since then, Tudor Opreanu has built two more models: MINI-OTO-2 and MINI-OTO-3 (OTO comes from Opreanu) which despite their small size boast performance remarkably.

MINI-OTO-2 measures just 77 cm between axes and is three times lighter than the Romanian made motor scooter. It is an ideal means of locomotion for holidays as it can go in a trunk or in the boot of a car (after dismantling its handle bar).

MINI-OTO-3 is an all-terrain vehicle which can climb up 35 degrees and travel easy through rough country, through mud, sand, ice or rocks. It weighs twice as little as Mini-OTO-2 and can travel up to 60 km/hour, carrying two people (200 kg) and has a 100 km autonomy of 800 km. In case of a flat tire, it is not necessary to stop up to the nearest "voluntar" workshop, thanks to its special tire fitted with several bandages layers and its seal ring of an original make.

TRACTOR NO. 40,000

These days, the 40,000th tractor has left the test plant of the Enterprise of Tractors of Miercurea Ciuc (Harghita county). Along the years this modern industrial unit has assimilated over 20 types of all-terrain farming tractors sold both by "Intrans" end users and foreign firms, from over 10 countries of the world.



THE 1988 WINTER

As illustrated by this recent image (left) by a Bucharest poet, winter has set in with abundant snow and low temperatures. It is true, it has come much sooner than in the previous years but it fully confirms the forecasts made by meteorologists a few months ago.

Judging it by the way it has started, the winter of 1988-1989 has every chance to become a memorable one.

VEGETAL FACTORIES

Today hundreds of millions of tons of industrial nitrogen are produced for agricultural purposes. The energy effort and ecological price of these fertilizers are tremendous. However, a small part (sometimes less than a half) of the active substance distilled by man into the soil is actually used by plants. For instance, long-term tests with isotopic methods made by the Fundulea-based in-

stitute of research into culture of cereals and technical plants proved that the capitalization coefficient in the experimental inoculation of cereals is 52 per cent. (from 150 kg N/Ha, 100 kg is considered to be the best dose for black earth).

In the face of this really

genocidal concern with cereals, concern which, like vegetables, can fix the atmospheric nitrogen, holds out fabulous prospects.

In other words, attempts are made at moving the chemical industry manufacturing nitrogen into the plant's root.

In this field the Fundulea institute of research has been approaching for more than a decade combinations fixing nitrogen among denitrified root bacteria and micro-organisms, and to adapt their vegetal carriers with assimilable nitrogen and phytohormones. A great deal of tests included the Azospirillum-type of bacteria residing both in the root of cereals and maize. Specialists identified genotypes of plants in development abundant bacterial associations with a continuous evolution up to the end of the vegetation per-

iod.

In order to meliorate the

TWO NEW STRAINS OF CEREALS

Two new types of cereals grown by the Turda Farm Research Station have been recently homologated by the State Committee for Strains Testing and Utilization: the T 1408 Turdaș spring two-row barley and the T 1409 Săvârșin spring two-row barley. The two new strains are characterized by an increased resistance to diseases and pests, great adaptability in various pedoclimatic conditions, afford the possibility of a large-scale capitalization by the processing industry.



13

112 RDT-LD THE PLEASURE OF A COMFORTABLE RIDE

ROCAR

For many years now the AUTOBUZUL enterprise has confirmed its front-ranking place in designing and manufacturing buses, trolleybuses and utility vans carrying the ROCAR trade mark. The unique characteristics of these motor vehicles are unanimously acknowledged by the most exigent specialists and beneficiaries. Annually, the AUTOBUZUL plant turns out scores of thousand vehicles in many variants and types. The remarkable quality of these products lies in the great and complex technique-scientific potential of the design, the high level of production technology, assembly and control departments, a par with the latest demands of world technology. The ROCAR products have the following characteristics: quality, reliability, safety, durability.

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Doublets, plus the seats of the driver and of the guide) have been the object of thorough studies. They offer elements of maximum comfortableness, are off the both ways and can be moved laterally. They are upholstered with soft wool. In harmonic lines, the seats exactly fit the ROCAR. The armrests and mobility of the seats allow of a perfect visibility, also enhanced by a panoramic windscreen (the lower part is green, gradually brightening to the lowest part of the side windows (three on each side are sliding) as well as the rear window, all of them very large, made of light green therm-absorbing safety glass.



on any terrain.

The bus has a 8S-100 synchronic gearbox with eight forward gears and two reverse. The passage from the slow to the fast gears being ensured by means of electro-pneumatic control. At the same time it has a double dry clutch and a PS 13 rear axle with a planetary reduction gear in the wheel hub.

The bus has the unmatched ROCAR, providing completely pneumatic, including highly functional and competitive solutions. A 112 RDT-LD breaks shortly but smoothly, remaining in the same, straight position.

A 112 RDT-LD defies any distance, bad weather and the most varied climate conditions.

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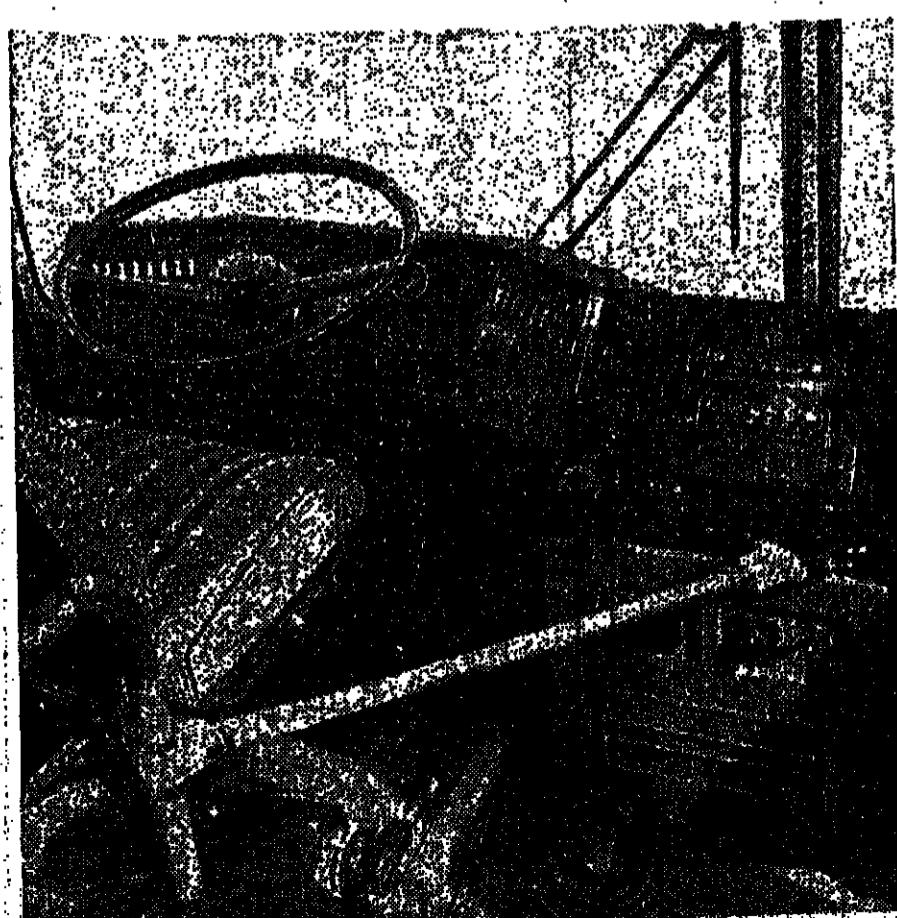
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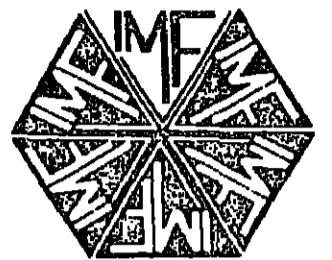
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THE FINE MECHANICS ENTERPRISE



YOU CANNOT PRODUCE WELL UNLESS YOU CONTROL!

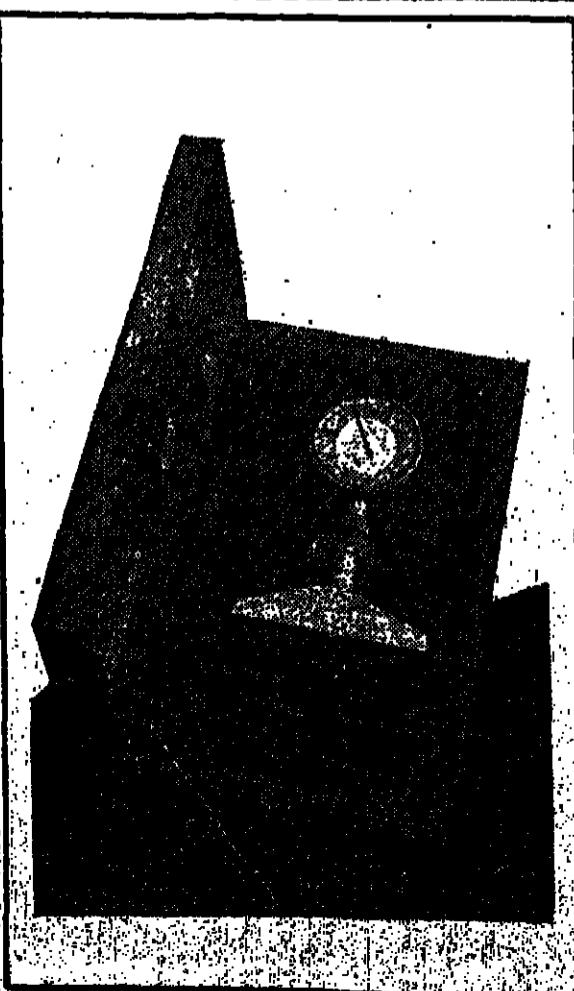
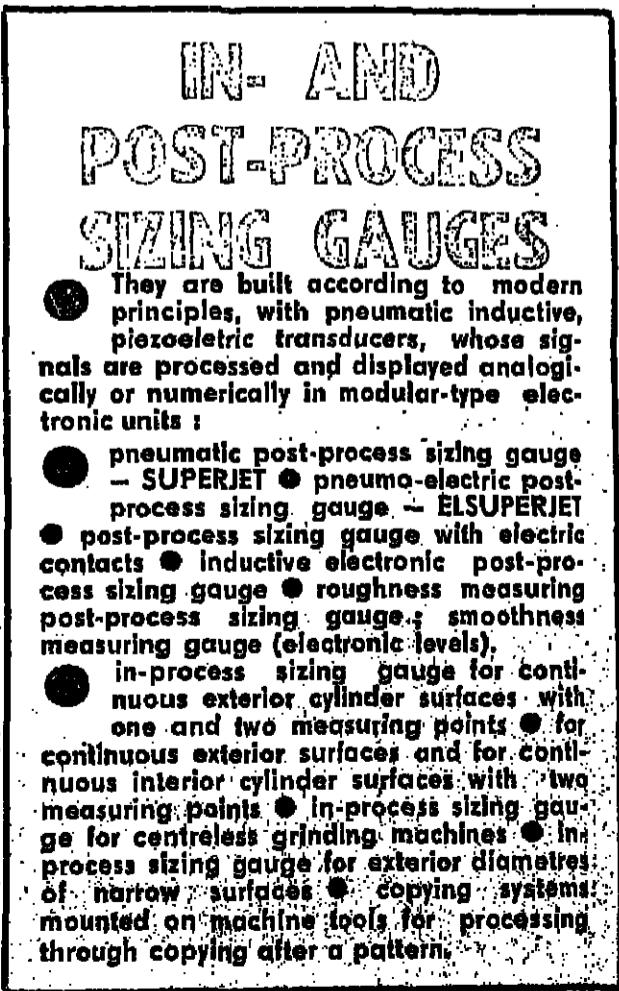
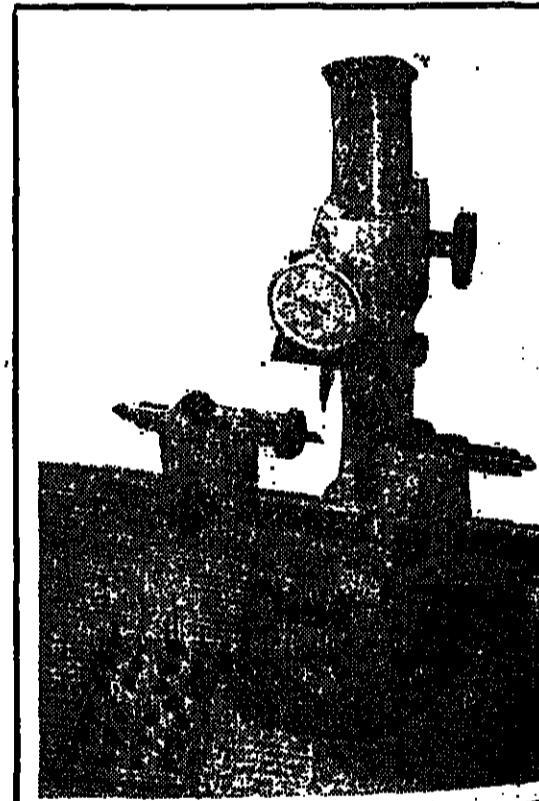
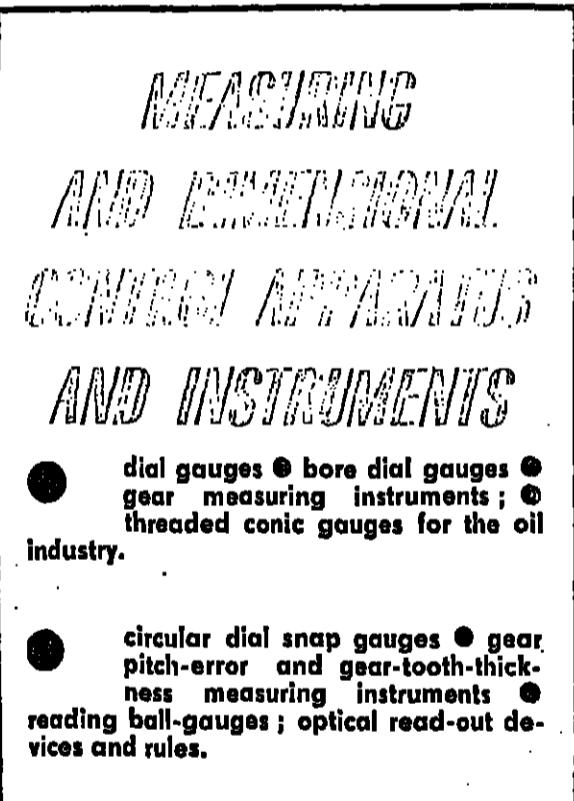
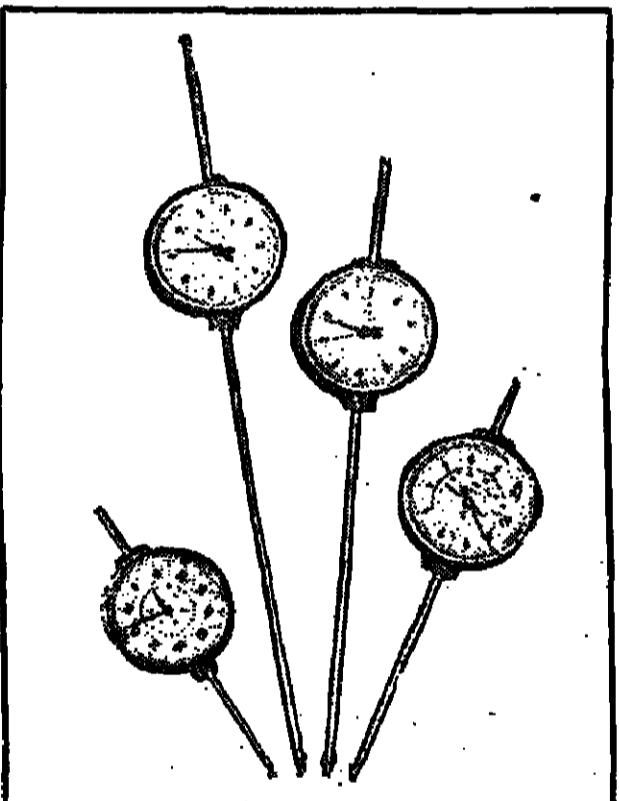
If, generally speaking, "man is the measure of all things" as Protagoras put it, we must stress that the quality of your products and the productivity of your labour are strictly conditioned by the use of MEASURING AND CONTROL APPARATUS.

The post- or in-process sizing of your products supplies you the information through which you can become EFFICIENT as a producer.

It is this efficiency (viz. quality, producti-

vity, competitiveness) that the Fine Mechanics Enterprise (IMF) of Bucharest has in mind when offering its beneficiaries:

- measuring and control apparatus for lengths, pressures, temperatures, discharges, times and speeds;
- special tools (diamond and sinter-carbide metal tools), holders, high-accuracy and fineness devices and dies, having a high degree of productivity and durability.



REMEMBER THE IMF TRADEMARK



SINTER-CARBIDE METAL PRODUCTS

The main groups of products bearing the "CARME-SIN" mark — which are the object of the Bucharest Fine Mechanics Enterprise's production programme — are the following: sinter-carbide metal brazed tips and inserts for metal cutting; sinter-carbide metal inserts for mining tools; sinter-carbide metal inserts specific to the wood industry, building materials and extraction industry; products for drilling installations; dies for screws and nuts; dies for roll bearings; other types of products upon the foreign partners' demand.

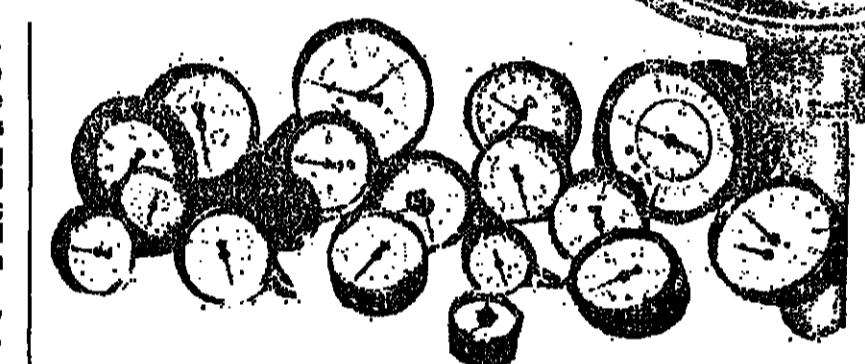
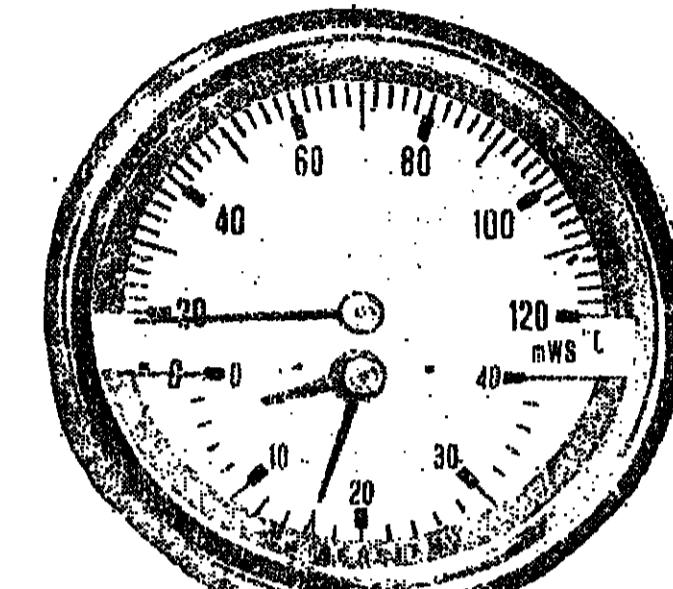
According to the concrete destination indicated by the end user, these products are executed out of the PKMG groups of carbide metal powder, after ISO international standards or according to other requirements specified in the order.

In order to increase the durability and performances of the sinter-carbide metal inserts, the method is applied of coating them with extra-hard layers of titanium carbide, giving the inserts an increased durability of up to 300 percent, as compared to the normal execution.



PRESSURE GAUGES

Through the great diversity resulting from constructive variants based on measuring limits, accuracy, diameter, connection and scale type, the Fine Mechanics Enterprise can satisfy the most exigent demands of its clients (standard pressure gauges or of special construction, upon demand). There are: • general use industrial manometers • vibration-proof manometers • corrosion-proof manometers • capsule-manometers • double indication manometers • manometers-thermometers.



DIAMOND TOOLS

The processing of ferrous and non-ferrous metals, of sinter-carbide metal, stone, concrete, ceramic and glass — through modern methods — calls for the use of diamond tools on an ever larger scale. The manufacturing programme of this kind of tools is achieved at IMF on the basis of the licence purchased from WINTER firm of West Germany and is currently in full swing as a result of the growing demand. It comprises the following more important groups:

— diamond mills with metallic or resinous binder of various shapes and sizes, with cubic boron nitride.

— diamond tools for construction-material processing

— diamond tools with galvanic binder

— honing diamond blades

— diamond pastes

— diamond tools for trimming and shaping abrasive stones

— chambering tools with extra-hard materials from diamond polycrystals or cubic boron nitride

— diamond drawing dies.

AND THE EXACT TIME

WHICH YOU CAN LEARN AT ANY MOMENT BY LOOKING AT THE DIAL OF THE WATCH WHOSE TRADEMARK OREX IS A GUARANTEE OF ACCURACY. BUILT IN SEVERAL HUNDRED MODELS BY IMF, THE WATCHES — MECHANIC OR QUARTZ-BASED ANALOG — MEET THE FINENESS OF YOUR AESTHETIC TASTE AND GIVE YOU THE EXACT TIME.

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